

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-265278

(43)Date of publication of application : 17.10.1995

(51)Int.Cl.

A61B 5/055

G01R 33/32

(21)Application number : 06-063824

(71)Applicant : **HITACHI MEDICAL CORP**

(22)Date of filing : 31.03.1994

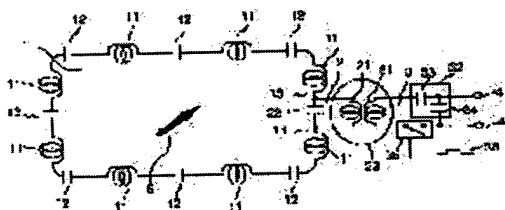
(72)Inventor : **TAKAHASHI TETSUHIKO
TAKEUCHI HIROYUKI
MATSUNAGA YOSHIKUNI
HIZUKA MASAHIRO**

(54) **RF PROBE**

(57)Abstract:

PURPOSE: To improve the stability of an RF probe for an MRI device.

CONSTITUTION: This RF probe is provided with a high-frequency closed loop 1 containing at least one or two or more conductor elements 11 and capacitive elements 12, a high-frequency closed loop 2 containing a capacitive element 22 and a conductor element 21 and acting as a parallel resonance circuit at the magnetic resonance frequency, a high-frequency closed loop 3 magnetically coupled with the parallel resonance circuit, and a port 4 detecting the output of the closed loop 3. The NMR signal is detected by the closed loop 1. The closed loop 2 acts as the trap circuit of the closed loop 1 when it is resonated at the magnetic resonance frequency, and it is inductively decoupled.



BEST AVAILABLE COPY